



# ASG-PreAlert® IDMS/MVS Enhancement Summary

## Version 4.3.0

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PAC1000-430

ASG-PreAlert (herein called PreAlert) offers these IDMS enhancements:

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For base product enhancements, see ["Base Product Enhancements" on page 4.](#)

## IDMS Version 15.0 Support

PreAlert now supports IDMS Version 15.0. From a single PreAlert session you can monitor IDMS 10.2, 12.x, 14.x, and 15.x.

PreAlert provides full functionality for IDMS Version 15.0. PreAlert monitors these functions:

- Active Tasks
- Buffers
- Files
- Task Definitions
- System statistics
- Active Task Exception Analysis
- Database Area Exception Analysis
- Run Units
- Database Areas
- Terminal and Line definitions
- Program Definitions
- System Exception Analysis
- Buffer Exception Analysis
- File Exception Analysis

## ASG-Replication Agent Statistics

PreAlert can display the statistics maintained by ASG-Replication Suite Real-Time Option. You can display both the replication system statistics and record statistics. The REPS line command mimics the REP SHOW display, and REPR mimics the REP RECORD display.

Selected replication statistics are included in IDMS System Exception Analysis.

Figure 1 • REPS line command

```
COMMAND:          I13          15:05:15.2  01.112  32.75% .TUT for Tutorial
IDMS IDMS13      V13          IDMS INTERFACE ACTIVE  TASKS:  14    .00/SEC

REPS ASG Real-Time Replication Statistics
+ Subtask: Active          DML Gateway: Active          DB/2 SubS:      D61T
+ MQSeries: Active        On-Line Trace: Inactive       DB/2 Plan:     REPRMP01
+-----+-----+-----+-----+
+ CV Iteration   :                238  Records Created:                263
+ Records Cached :                0   Cache Storage  :                232
+ Max Cache Stg :          20,971,520  Cache Stg HWM  :                6,324
+ DMLQ Recs Put  :                213  DispQ Recs Put :                11
+ DMLQ Recs Dropd:                50   DispQ Depth   :                0
+ Records Applied:                213  Last Cache Time:          00-00000.547135
+ Immediate Apply:                11   Cached Apply   :                202
+ Apply Errors   :                0   Time Since Last:          *not-available*
+-----+-----+-----+-----+
+ Latency for Last Commit Process:
+ Cache: 00-00000.002238  MQSeries: 00-00029.220707  Convert: 00-00005.50927
+ Apply: 00-00000.140701                                Total: 00-00034.87291
+ Time Since Last Execution:
+ Cache: 03-20699.730040  MQSeries: 03-20670.507094  Convert: 03-20664.99782
+ Apply: 03-20664.997215
```

## IDMS System Exception Analysis

Task threads count exception. PreAlert will monitor the task threads count for a specific task definition. When the thread count reaches the maximum, an exception message is generated.

These are ASG-Replication Suite Real-Time Option exceptions:

- Replication cache storage usage
- Replication cache storage HWM
- Replication last commit latency
- Replication apply execution delay
- Replication apply errors

## IDMS Exception Analysis Text Keywords

Use these new text keywords with the batch job submit option:

- &MSGT – replaced with the last message generated by an exception definition
- &MSGA – replaced with all messages generated by an exception definition

For example, System exception definition #1 generated two exception messages:

```
*** CPU UTILIZATION = 93.40 (S1) ***  
*** I/O RATE = 174.03 (S1) ***
```

The source for the job submit option contained:

```
//PACUSER JOB  
//STEP1 EXEC PGM=  
//SYSIN DD *  
&CVJN &MSGT  
&CVJN &MSGA  
/*
```

The following job text would have been submitted:

```
//PACUSER JOB  
//STEP1 EXEC PGM=  
//SYSIN DD *  
IDMSJOB1 I/O RATE = 174.03 (S1)  
IDMSJOB1 CPU UTILIZATION = 93.40 (S1);I/O RATE = 174.03 (S1)  
/*
```

## IDMS Run Unit Data

The new RUDN line command displays the run unit database name.

## Base Product Enhancements

### Memory Scan

The MSCN line command is used to scan virtual storage. Both the private area and system areas of any swapped in address space may be scanned. The search string may be specified either as a character string or as hex data.

Figure 2 • Scanning virtual storage

```
COMMAND:          DUMPSCAN  11:06:35.9  01.106  15.06% .TUT for Tutorial
.  Memory Scan - Enter:
.
.  Address Space:  JOB=jobname or ASI=asid
.  Search Data:   STR=character string or HEX=hex data
.  Location:     LOC=PRIVATE/LSQA/CSA/SQA/NUCLEUS/LPA
.  Alignment:    ALN=D/F/H/B

MSCN JOB=PACTEST,STR=SHOPMXMB,ALN=B
+      DATA: STR=SHOPMXMB
+      ADDRESS SPACE: JOB=PACTEST
+      LOCATION: LOC=PRIVATE
+      ALIGNMENT: ALN=B
+      FOUND AT: 0000FD4D

CMDA          ENTER ASID
ADDR
DUML DUMP ASID  127/PACTEST  ADDRESS:0000FD4D
DUMH  ADDRESS      +0.....3 +4.....7 +8.....B +C.....F  *---E B C D I C--*
DUMP  0000FD4D +000                                E2C8D6  *                SHO*
DUMP  0000FD50 +003  D7D4E7D4 C26DF0F4 61F1F361 F0F16DF1 *PMXMB_04/13/01_1*
DUMP  0000FD60 +013  F84BF0F2 90ECD00C 18CF41B0 CFFF41B0 *8.02             *
DUMP  0000FD70 +023  B00158A0 100058F0 A898BF1F F4904770 *                0yq 4  *
DUMP  0000FD80 +033  C0744100 08000700 47F0C048 00000900 *                0  *
```